



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 5010-234-PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2005/001031	International filing date (day/month/year) 12/01/2005	(Earliest) Priority Date (day/month/year) 12/01/2004
Applicant APPLERA CORPORATION		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 4

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

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JUL 05 2005

KILYK & BOWERSOX PLLC

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2005/001031

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A device (420) and method for real-time amplification and detection of a large number of target nucleic acids contained in a large number of biological samples is provided. The device (420) can comprise a substrate (422) and an optically transparent cover, wherein the substrate can comprise a first surface, at least one sample receiving chamber (430), a distributor channel (434), at least one reaction chamber (428), and a vent (440) for each reaction chamber. The substrate can comprise a material having a thermal conductivity of at least about 0.25 W/m°K.

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International Application No
PCT/US2005/001031

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B01L3/00 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B01L C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 062 042 B (MICROPARTS GESELLSCHAFT FUER MIKROSTRUKTURTECHNIK MBH; MERLIN GESELLSC) 28 May 2003 (2003-05-28) cited in the application	1-8, 14, 15
Y	the whole document	9-15, 27, 28, 31
X	WO 03/019158 A (BESTMANN, LUKAS; DUAL, JUERG; BAECHI, DANIEL) 6 March 2003 (2003-03-06)	1-8, 16-22, 25, 29, 30, 32-35
Y	page 6 - page 12; figure 1	26-28, 31, 35
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

22 June 2005

Date of mailing of the international search report

30/06/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5618 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Marti, P

INTERNATIONAL SEARCH REPORT

International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/138941 A1 (GONG HAIQING ET AL) 24 July 2003 (2003-07-24) paragraph '0082! paragraph '0105! - paragraph '0106! paragraph '0118! - paragraph '0120!; figure 1 -----	1-8, 14, 15, 30-32, 34, 35
Y	WO 03/089139 A (COOL OPTIONS, INC) 30 October 2003 (2003-10-30) paragraph '0017! - paragraph '0019! paragraph '0023! - paragraph '0037! -----	9-15, 26, 35
X	US 2002/094303 A1 (YAMAMOTO TAKATOKI ET AL) 18 July 2002 (2002-07-18) paragraph '0094! - paragraph '0099!; figures 1c, 3, 11b -----	16-23, 30-33
X	US 5 498 392 A (WILDING ET AL) 12 March 1996 (1996-03-12) the whole document -----	30
A	US 2003/152994 A1 (WOUDENBERG TIMOTHY W ET AL) 14 August 2003 (2003-08-14) the whole document -----	

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Information on patent family members

International Application No

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